

MARKED-UP COPY OF THE AMENDED CLAIMS

15. (new) A method for limiting of current and voltage of an electrical consumer (15) involving a safety device (19) comprising the steps:
furnishing the safety device (19) with at least a voltage and current limiting device (7,13, 14) and with at least one protective device (F 1) as a fusible fuse, with a voltage limiter device (D3) referenced to a common line (12), with a current limiter device (R6) connected to the output of the voltage limiter device (D3) as well as with a protective circuit (20), which protective circuit (20) is disposed upstream the voltage and current limiting device (7,13, 14), wherein the protective circuit (20) exhibits a field effect transistor (Q1) as a switching and regulating transistor, wherein the source drain leg (S-D) of the field effect transistor (Q1) is disposed between an input connector (8) and the voltage and current limiting device (7,13, 14);
connecting the gate (G) to the common line (12) through a resistor (R4);
connecting a second transistor (Q2) to the input connector (8) and to the gate (G) of the switching and regulating transistor (Q 1), wherein the collector (Q23) is connected to the gate (G) of the switching and regulating transistor (Q 1) for influencing the control voltage of the switching and regulating transistor (Q 1), and
disposing a voltage sensor circuit (D1,RS) between the base (Q22) of the second transistor (Q2) and the common line (12) for voltage detection;
connecting the electrical consumer downstream to the safety device (19) with at least one input connector (8) and one output connector (16) as well as input connector and output connector (10, 17) of the common line (12);

feeding in the control voltage of the field effect transistor (Q 1) from the gate (G) to the common line (12) through the resistor (R4);
feeding a voltage (U9,11) back to the base (Q22) of the second transistor (Q2) over a feedback resistor (R3) from the output (9,11) of the protective circuit (20).

REMARKS

Claims 1 through 14 continue to be in the case.

New claim 15 is being introduced.

New claim 15 is based on claim 1, however the format of claim 15 is that of a method claim.

Consideration of claim 15 is respectfully requested.

All claims as presently submitted are deemed to be in form for allowance and an early notice of allowance is earnestly solicited.

Respectfully submitted,

Wilhelm Fey

By: 

Horst M. Kasper, his attorney
13 Forest Drive, Warren, N.J. 07059
Telephone: (908)757-2839
Telefax: (908)668-5262
Reg.No. 28559; Docket No.: MSA246

FAX RECEIVED

FEB 05 2003

TECHNOLOGY CENTER 2800

*%pt1\PAMEND(sn(rep-/am